

Product datasheet for **AP05133PU-N**

CACNA1E Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 5-10 µg/ml.
Reactivity:	Human, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the Rat alpha1E Calcium Channel conjugated to KLH.
Specificity:	This antibody recognizes Alpha 1E Calcium Channel CACNA1E.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Preservative: 0.08% Sodium Azide
Concentration:	lot specific
Purification:	Ammonium sulfate precipitation
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	calcium voltage-gated channel subunit alpha1 E
Database Link:	Entrez Gene 777 Human Q15878



[View online »](#)

Background:

Voltage-sensitive calcium channels (VSCCs) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1E gives rise to R-type calcium currents. R-type calcium channels belong to the 'high-voltage activated' (hva) group and are blocked by nickel, and partially by omega-agatoxin-iiiia (omega-aga-IIIA). They are however insensitive to dihydropyridines (DHP), omega-conotoxin-GVIA (omega-ctx-GVIA), and omega-agatoxin-IVA (omega-aga-IVA). Calcium channels containing alpha-1e subunit could be involved in the modulation of firing patterns of neurons.

Synonyms:

CACH6, CACNL1A6, Cav2.3, Brain calcium channel II